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Application Serial Number: <u>US</u>

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RAW SEQUENCE LISTING DATE: 12/09/2004 PATENT APPLICATION: US/09/893,443 TIME: 13:40:57

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\12092004\1893443.raw

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3 <110> APPLICANT: Gmachl, Michael
        Peters, Jan-Michael
         Gieffers, Christian
 7 <120> TITLE OF INVENTION: Methods for Identifying Inhibitors of the Anaphase Promoting
         Complex
10 <130> FILE REFERENCE: 0652.2310001
12 <140> CURRENT APPLICATION NUMBER: 09/893,443
13 <141> CURRENT FILING DATE: 2001-06-29
15 <150> PRIOR APPLICATION NUMBER: 60/243,157
16 <151> PRIOR FILING DATE: 2000-10-25
18 <150> PRIOR APPLICATION NUMBER: EP 0 113 832.0
19 <151> PRIOR FILING DATE: 2000-06-29
21 <160> NUMBER OF SEQ ID NOS: 3
23 <170> SOFTWARE: PatentIn version 3.2
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 1051
27 <212> TYPE: PRT
28 <213> ORGANISM: Triticum aestivum
30 <400> SEQUENCE: 1
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36 Gln Lys Lys Thr Arg Ala Gly Glu Gly Glu Val Thr Arg Glu Glu Gly
37
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40 Asp Ala Ala Met Ala Gly Arg Gly Asn Glu Ile Asp Glu Asp Leu His
44 Ser Arg Gln Leu Ala Val Tyr Gly Arg Glu Thr Met Lys Arg Leu Phe
48 Gly Ser Asn Val Leu Val Ser Gly Leu Gln Gly Leu Gly Ala Glu Ile
                       70
52 Ala Lys Asn Leu Val Leu Ala Gly Val Lys Ser Val Thr Leu His Asp
                   85
56 Asp Gly Asn Val Glu Leu Trp Asp Leu Ser Ser Asn Phe Phe Leu Ser
              100
                                   105
60 Glu Asn Asp Val Gly Gln Asn Arg Ala Gln Ala Cys Val Gln Lys Leu.
                               120
64 Gln Glu Leu Asn Asn Ala Val Leu Val Ser Ala Leu Thr Gly Asp Leu
                           135
68 Thr Lys Glu His Leu Ser Lys Phe Gln Ala Val Val Phe Thr Asp Ile
                       150
                                           155
72 Ser Leu Asp Lys Ala Ile Glu Phe Asp Asp Tyr Cys His Ser Gln Gln
                                       170
76 Pro Pro Ile Ala Phe Ile Lys Ser Glu Val Arg Gly Leu Phe Gly Ser
77
               180
                                                       190
                                   185
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PATENT APPLICATION: US/09/893,443

DATE: 12/09/2004 TIME: 13:40:57

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81			195					200		_			205	_	_	_
84	Glu		Pro	His	Thr	Gly		Val	Ala	Ser	Ile	Ser	Asn	Asp	Asn	Pro
85		210					215					220				_
		Leu	Val	Ser	Cys		Asp	Asp	Glu	Arg		Glu	Phe	Gln	Asp	_
89						230	_	_			235		_			240
92	Asp	Leu	Val	Val	Phe	Ser	Glu	Val	His	Gly	Met	Thr	Glu	Leu	Asn	Asp
93					245					250					255	
96	Gly	Lys	Pro	Arg	Lys	Val	Lys	Asn	Ala	Arg	Pro	Tyr	Ser	Phe	Phe	Leu
97				260					265					270		
100	Glu	ı Glı	ı Asp	Thi	: Ser	Ser	Phe	: Gly	/ Ala	а Туг	· Val	. Arg	η Glչ	/ Gly	/ Ile	· Val
101			275	-				280					285			
104	Thr	Glr	ı Val	Lys	Pro	Pro	Lys	val	l Ile	E Lys	s Phe	e Lys	Pro	Lei	ı Lys	Glu
105		290					295					300				
			: Sei	: Glı	ı Pro	Gly	r Glu	ı Phe	e Lei	ı Met	Ser	: Asp	Phe	e Sei	Lys	Phe
	305					310					315					320
112	Glu	Arg	y Pro	Pro			ı His	Lei	ı Ala			ı Ala	ı Leı	ı Asp	_	Phe
113					325					330					335	
116	Arg	Thi	Glu			Arg	J Ph∈	Pro			ı Gly	/ Ser	Thi) Val
117				340					345					350		
120	Glr	Arg	y Val	l Ile	Glu	ı Tyr	: Ala			: Ile	e Asr	ı Asp			ı Gly	Asp
121			355					360					365			
		Lys	: Lei	ı Glı	ı Glu	ı Ile	Asp	Lys	s Lys	Leu	ı Let			s Phe	e Ala	Ser
125		370					375					380				
128	Gly	Sei	Arg	g Ala	a Val			Pro) Met	: Ala	a Ala	Met	: Phe	e Gly	/ Gly	, Ile
	385					390					395					400
132	Val	. Gl	/ Glr	ı Glu			. Lys	Alá	а Суя		_	/ Lys	Phe	e His		Leu
133				_	405				_	410				_	415	
	-	Glr	ı Phe		_	Phe	Asp	Sei			ı Ser	: Leu	Pro		_	Pro
137			_	420		_		_	425		_	_	_	430		
		Gli			/ Asp	Let	ı Lys		_	s Asr	ı Ser	Arg) Ala	Gln
141		_	435			_	_	440		_	_	_	445		~ 7	_
				. Phe	e GIZ	r Ser	_		ı G1r	ı Asr	т г			1 GII	ı Ala	Lys
145		450				_	455		_	~-3	~	460		_	_	
			e Met	: vai	. GIZ		_	Ala	а ьег	ı GIŞ	_		Pne	е ьег	г гух	Asn
	465		~			470		~			475					480
		Ala	і ьег	ı met			e ser	. Cys	s ser			ı Gıy	ASI	ı rec		Leu
153		_			485		~ 1	· · • • • • • •		490					495	
		ASI) ASI			. TTE	e GIU	ггъ			ı Let	ı ser	AIC			Leu
157				500		~7		- 03-	505					510		ml
		Arg	_	_) Asr	1 116	GIY			р гув	s ser	Thr			A A L a	Thr
161		.	515		~1.			520				a 1	525			
				. val	. IIE	: AST		_	ь нег	ı HlS	val			т пел	ı GIT	Asn
165		530		. D	. di-	m1	535		, _{77_} 7	DL -	. 7. ~	540		, ph.	. П	
	-		ı sei	Pro	GIU			ı ASI	ı val	. Pne) Alá	i PN6	: III	Glu
	545		. 7	. .	. TT_ 7	550		. 70 71 -	. т	. 7	555		րե -	. ז	71	560
		. ьег	ı ASŢ) Ala			. AST	ı Alá	і пеп	_		ı val	. rni	. Alč	575	Met
173		. т л-			565			П	o Dlo-	570		. D	т а-	т 🗢		
T 1/6	туr	TT6	: ASI	, ser	. AIC	Cys	val	. тут	. PH6	: GII	гпλε	, PIC	, шег	ı net	ı Gil	Ser

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177				580					585					590		
180	Gly	\mathtt{Thr}	Leu	Gly	Ala	Lys	Cys	Asn	Thr	Gln	Met	٧al	Ile	${\tt Pro}$	His	Leu
181			595					600					605			
184	Thr	Glu	Asn	Tvr	Gly	Ala	Ser	Arq	Asp	Pro	Pro	Glu	Lys	Gln	Ala	Pro
185		610		-	_		615		-			620	-			
	Met		Thr	Val	His	Ser		Pro	His	Asn	Tle		His	Cys	Leu	Thr
	625	Cyb	****	vai	11110	630	1110	110	1110	11011	635	пор	*****	Cyb	204	640
		77.	7/ **	Cor	~1		C1.,	C1,,	T 011	Lou		Tara	Thr	Pro	Thr	
	ттр	Ala	ALG	per		FIIE	Giu	СТУ	пец	650	Giu	цуъ	TIIL	FIO	655	Giu
193	TT = 7	7	77-	Dh.	645	0	7	Daga	mla =a		m	т1 "	0	7 7 -		7
	vai	ASII	Ата		ьeu	ser	Asn	PIO		TIIL	TAT	ше	ser	Ala	Ald	Arg
197	1		~-	660		~-1		_	665	~ 1	_	~1	_	670	-7	~7
	Inr	Ala	_	Asp	Ala	GIn	Ala		Asp	Gin	Leu	GIU		Val	ше	GIU
201			675					680			_		685	_		
204	Cys	Leu	Asp	Arg	Asp	Lys	-	Glu	Thr	Phe	Gln	_	Ser	Ile	Thr	Trp
205		690	,				695					700				
208	Ala	Arg	Leu	Lys	Phe	Glu	Asp	Tyr	Phe	Ser	Asn	Arg	Val	Lys	Gln	Leu
209						710					715					720
212	Thr	Phe	Thr	Phe	Pro	Glu	Asp	Ser	Met	Thr	Ser	Ser	Gly	Ala	Pro	Phe
213					725					730					735	
216	Trp	Ser	Ala	Pro	Lys	Arg	Phe	Pro	Arg	Pro	Val	Glu	Phe	Ser	Ser	Ser
217	-			740	_	_		•	745					750		
220	Asp	Gln	Ser	Gln	Leu	Ser	Phe	Ile	Leu	Ala	Ala	Ala	Ile	Leu	Arq	Ala
221	-		755					760					765		_	
	Glu	Thr		Glv	Ile	Pro	Ile	Pro	Glu	Trp	Ala	Lvs	Thr	Pro	Asn	Lvs
225		770		1			775			<u>T</u> -		780				_
	Len		Δla	G] 11	Δla	Val		Lvs	Val	Tle	Val		Asp	Phe	Gln	Pro
	785			010		790	1105	-1-			795					800
		Gln	Glv	Val	Larg		Ual	Thr	Hic	Glu		Δla	Thr	Ser	T.e11	
233	шуы	0111	O. y	vai	805	110	Val	****		810	_,	1114		001	815	-
	Car	λla	Sar	17a 1		Acn	7 T =	Δla	TaV		Glu	Glu	T.e.11	Ile		T.vc
237	DCI	AIG	DCI	820	дол	изр	лια	пта	825	110	Olu	Olu	пси	830	HIU	Lys
	T 011	C1	C111		Cor	Tara	Thr	Tou		Cor	Gl v	Dho	uic	Met	7 cn	Dro
241	цец	GIU	835	vai	Ser	цуь	1111	840	PIO	SET	Сту	LITE	845	MEC	Noii	FIC
	т1.	C1 ~		C1	T	7 ~~	7 00		Прх	7 ~~	Dho	IIi a		7 an	77~ T	T10
	тте		Pne	GIU	ьуѕ	Asp	_	Asp	1111	ASII	Pne		Met	Asp	val	116
245	77-	850	Dl	n 1 -	T	M- L	855	77.	7	7	m	860	T] _	Dese	α1	770 T
		GIY	Pne	Ата	ASII		Arg	Ата	Arg	ASII		ser	тте	Pro	GIU	
	865	_	~	_		870	-1	+1		~ 1	875	- 1	-7 .	5		880
	Asp	Lys	Leu	Lys		ьys	Phe	шe	Ala		Arg	шe	шe	Pro		TTe
253				_	885		_	_	_	890	_			_	895	
256	Ala	Thr	Ser		Ala	Met	Ala	Thr	Gly	Leu	Val	Cys	Leu	Ģlu	Leu	Tyr
257				900					905					910		
260	Lys	Ala	Leu	Ala	Gly	Gly	His	Lys	Val	Glu	Asp	Tyr	Arg	Asn	Thr	Phe
261			915		,			920					925			
264	Ala	Asn	Leu	Ala	Ile	Pro	Leu	Phe	Ser	Ile	Ala	Glu	Pro	Val	Pro	Pro
265		930					935					940				
268	Lys	Thr	Ile	Lys	His	Gln	Glu	Leu	Ser	Trp	Thr	Val	Trp	Asp	Arg	Trp
269				-		950				-	955		_		_	960
		Val	Thr	Glv	Asn	Ile	Thr	Leu	Ara	Glu	Leu	Leu	Glu	Trp	Leu	Lys
273				4	965				J	970				-	975	•

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Input Set : A:\Sequence Listing.txt Output Set: N:\CRF4\12092004\1893443.raw

276 Glu Lys Gly Leu Asn Ala Tyr Ser Ile Ser Cys Gly Thr Ser Leu Leu 277 985 280 Tyr Asn Ser Met Phe Pro Arg His Lys Glu Arg Leu Asp Arg Lys Val 995 1000 1005 284 Val Asp Val Ala Arg Glu Val Ala Lys Met Glu Val Pro Ser Tyr 1015 1020 1010 288 Arg Arg His Leu Asp Val Val Ala Cys Glu Asp Asp Asp Asp 1025 1030 1035 292 Asn Asp Val Asp Ile Pro Leu Val Ser Val Tyr Phe Arg 1040 1045 293 296 <210> SEQ ID NO: 2 297 <211> LENGTH: 147 298 <212> TYPE: PRT 299 <213> ORGANISM: Homo sapiens 301 <400> SEQUENCE: 2 303 Met Ala Leu Lys Arg Ile His Lys Glu Leu Asn Asp Leu Ala Arg Asp 304 1 307 Pro Pro Ala Gln Cys Ser Ala Gly Pro Val Gly Asp Asp Met Phe His 311 Trp Gln Ala Thr Ile Met Gly Pro Asn Asp Ser Pro Tyr Gln Gly Gly 315 Val Phe Phe Leu Thr Ile His Phe Pro Thr Asp Tyr Pro Phe Lys Pro 319 Pro Lys Val Ala Phe Thr Thr Arg Ile Tyr His Pro Asn Ile Asn Ser 320 65 70 323 Asn Gly Ser Ile Cys Leu Asp Ile Leu Arg Ser Gln Trp Ser Pro Ala 85 90 327 Leu Thr Ile Ser Lys Val Leu Leu Ser Ile Cys Ser Leu Leu Cys Asp 100 105 331 Pro Asn Pro Asp Asp Pro Leu Val Pro Glu Ile Ala Arg Ile Tyr Lys 120 335 Thr Asp Arg Glu Lys Tyr Asn Arg Ile Ala Arg Glu Trp Thr Gln Lys 336 130 135 339 Tyr Ala Met 340 145 343 <210> SEQ ID NO: 3 344 <211> LENGTH: 84 345 <212> TYPE: PRT 346 <213> ORGANISM: Homo sapiens 348 <400> SEQUENCE: 3 350 Met Lys Val Lys Ile Lys Cys Trp Asn Gly Val Ala Thr Trp Leu Trp 351 1 354 Val Ala Asn Asp Glu Asn Cys Gly Ile Cys Arg Met Ala Phe Asn Gly 20 25 358 Cys Cys Pro Asp Cys Lys Val Pro Gly Asp Asp Cys Pro Leu Val Trp 362 Gly Gln Cys Ser His Cys Phe His Met His Cys Ile Leu Lys Trp Leu 366 His Ala Gln Gln Val Gln Gln His Cys Pro Met Cys Arg Gln Glu Trp

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370 Lys Phe Lys Glu

367 65

VERIFICATION SUMMARY

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